



COPY OF PAPERS  
ORIGINALLY FILED

#3

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT : MARANAS, COSTAS D. and MOORE, GREGORY  
SERIAL NO : 10/037,572  
FILED : November 9, 2001  
TITLE : MODELING FRAMEWORK FOR PREDICTING THE NUMBER,  
TYPE, AND DISTRIBUTION OF CROSSOVERS IN DIRECTED  
EVOLUTION EXPERIMENTS

Grp./A.U. : 1645  
Examiner :  
Conf. No. : 6518  
Docket No. : P05413US4

**COMPLETION OF FILING REQUIREMENTS**

To the Assistant Commissioner for Patents  
Washington, D.C. 20231

ATTN: Application Branch

Dear Sir:

This replies to the Office letter dated April 18, 2002. A copy of the Notice to File  
Missing Parts of Application -- Filing Date Granted (Form PTO-1533) is enclosed.

No original declaration was filed, and enclosed is the original declaration for this  
application.

Attached is a statement that the "attached" specification is a copy of the specification  
and any amendments thereto which were filed in the PTO to obtain the filing date.

**CERTIFICATE OF MAILING**

I hereby certify that this document and the documents referred to as enclosed therein are being deposited with  
the United States Postal Service as First Class mail in an envelope addressed to: Assistant Commissioner for  
Patents, Attn: Application Branch, Washington, D.C. 20231, on this 3<sup>rd</sup> day of June, 2002.

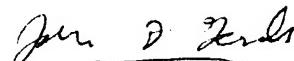
John D. Goodhue

John D. Goodhue

Also attached is the required fee of \$65.00 for a small entity to cover the late filing of original declaration under 37 CFR 1.16(e).

Please charge any underpayment or credit any over payment to Deposit Account No. 26-0084. A duplicate of this request is attached.

Respectfully submitted,



JOHN D. GOODHUE, Reg. No. 47,603  
McKEE, VOORHEES & SEASE  
801 Grand Avenue, Suite 3200  
Des Moines, Iowa 50309-2721  
Phone No. (515) 288-3667  
Fax No. (515) 288-1338  
**CUSTOMER NO: 27407**

Attorneys of Record

- bja -

JUN 13 2002  
U.S. PATENT AND TRADEMARK OFFICE

COPY OF PAPERS  
ORIGINALLY FILED

#3

PTO/SB/17 (11-01)

Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL for FY 2002

*Patent fees are subject to annual revision.*

Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT**      (\$ ) **65.00**

## Complete If Known

Application Number	10/037,572
Filing Date	November 9, 2001
First Named Inventor	MARANAS, COSTAS D., et al.
Examiner Name	
Group Art Unit	1645
Attorney Docket No.	P05413US4

## METHOD OF PAYMENT (check all that apply)

Check    Credit card    Money Order    Other    None

Deposit Account:

Deposit Account Number	26-0084
Deposit Account Name	McKee, Voorhees & Sease, P.L.C.

The Commissioner is authorized to: (check all that apply)

- Charge fee(s) indicated below    Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee  
 to the above-identified deposit account.

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

**Large Entity**   **Small Entity**

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	65.00
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for ex parte reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 400	216 200	Extension for reply within second month	
117 920	217 460	Extension for reply within third month	
118 1,440	218 720	Extension for reply within fourth month	
128 1,960	228 980	Extension for reply within fifth month	
119 320	219 160	Notice of Appeal	
120 320	220 160	Filing a brief in support of an appeal	
121 280	221 140	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,280	241 640	Petition to revive - unintentional	
142 1,280	242 640	Utility issue fee (or reissue)	
143 460	243 230	Design issue fee	
144 620	244 310	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Processing fee under 37 CFR 1.17(q)	
126 180	126 180	Submission of Information Disclosure Stmt	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 740	246 370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 740	249 370	For each additional invention to be examined (37 CFR § 1.129(b))	
179 740	279 370	Request for Continued Examination (RCE)	
169 900	169 900	Request for expedited examination of a design application	
Other fee (specify) _____			

**SUBTOTAL (1)      (\$ )      0**

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	=
Multiple Dependent	-3** =	X	=

Large Entity	Small Entity	Fee Description
Fee Code (\$)	Fee Code (\$)	
103 18	203 9	Claims in excess of 20
102 84	202 42	Independent claims in excess of 3
104 280	204 140	Multiple dependent claim, if not paid
109 84	209 42	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2)      (\$ )      0**

\*or number previously paid, if greater; For Reissues, see above

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)      (\$ )      65.00**

Complete (if applicable)

Name (Print/Type)	JOHN D GOODHUE	Registration No. (Attorney/Agent)	47,603	Telephone	(515) 288-3667
Signature	<i>John D. Goodhue</i>			Date	6 3 - 2002

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



COPY OF PAPERS  
ORIGINALLY FILED

PATENT  
Attorney Docket: P05413US4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT : MARANAS, COSTAS D. and MOORE, GREGORY  
SERIAL NO : 10/037,572  
FILED : November 9, 2001  
TITLE : MODELING FRAMEWORK FOR PREDICTING THE NUMBER,  
TYPE, AND DISTRIBUTION OF CROSSOVERS IN DIRECTED  
EVOLUTION EXPERIMENTS

Grp./A.U. : 1645  
Examiner :  
Conf. No. : 6518  
Docket No. : P05413US4

STATEMENT BY ATTORNEY THAT PAPERS ATTACHED TO  
DECLARATION ARE A COPY OF THOSE FILED IN PTO TO GET  
A FILING DATE

To the Assistant Commissioner for Patents  
Washington, D.C. 20231

ATTN: Application Branch

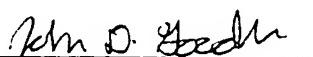
Dear Sir:

I, John D. Goodhue of McKee, Voorhees & Sease, 801 Grand Avenue, Suite 3200, Des Moines, Iowa 50309-2721, Registration No. 47,603, Telephone (515) 288-3667, state that I am the attorney for this application and that I have reviewed the

[1 ] page(s) of Abstract  
[ 37] pages of Specification

-----  
CERTIFICATE OF MAILING (37 C.F.R. § 1.8(a))

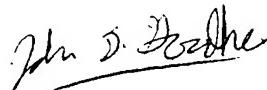
I hereby certify that this document and the documents referred to as enclosed therein are being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on this 3<sup>rd</sup> day of June, 2002.

  
John D. Goodhue

[ 2 ] pages of claims  
[ 7 ] sheets of drawings

as shown in my files to be the papers filed in respect to the above identified application and have compared them to the papers attached to the declarations of COSTAS D. MARANAS and GREGORY MOORE which accompanies this statement and I declare that these papers attached to the declaration are a copy of the specification and any amendment thereto which I filed in the PTO in order to obtain a filing date for this application by mailing to the PTO by Express Mail bearing Mailing Label Number EL 011005175 US on November 9, 2001.

Respectfully submitted,



JOHN D. GOODHUE, Reg. No. 47,603  
McKEE, VOORHEES & SEASE  
801 Grand Avenue, Suite 3200  
Des Moines, Iowa 50309-2721  
Phone No. (515) 288-3667  
Fax No. (515) 288-1338  
CUSTOMER NO: 27407

Attorneys of Record

- bja -



UNITED STATES PATENT AND TRADEMARK OFFICE



COPY OF PAPERS  
ORIGINALLY FILED

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/037,572	11/09/2001	Costas D. Maranas	P05413US4

**CONFIRMATION NO. 6518**

27407

MCKEE, VOORHEES & SEASE, P.L.C.  
ATTN: PENNSYLVANIA STATE UNIVERSITY  
801 GRAND AVENUE, SUITE 3200  
DES MOINES, IA 50309-2721

**FORMALITIES LETTER**



\*OC00000007909738\*

Date Mailed: 04/18/2002

**NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION**

**FILED UNDER 37 CFR 1.53(b)**

***Filing Date Granted***

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- o The oath or declaration is unsigned.
- o To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.
- o **The balance due by applicant is \$ 65.**

*A copy of this notice MUST be returned with the reply.*

*[Signature]*  
Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE